

Lithium-Ion, Lithium-Polymer, Battery Charger, 1A 12-Pin, DFN

Manufacturers	Analog Devices, Inc
Package/Case	QFN-12
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4067EDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4067 is a USB power management and Li-Ion/ Polymer battery charger designed for portable battery powered applications. The part controls total current used by the USB peripheral for operation and battery charging. The total input current may be left unregulated, or it may be limited to 20% or 100% of the programmed value up to 1.5A (typically 500mA). Battery charge current is automatically reduced such that the sum of the load current and the charge current does not exceed the programmed input current.

With the addition of an external P-channel MOSFET the LTC4067 can withstand voltages up to 13V.

The LTC4067 includes a complete constant current/constant voltage linear charger for single cell Li-Ion batteries. The float voltage applied to the battery is held to a tight 0.4% tolerance, and charge current is programmed using an external resistor to ground. An end-of-charge status output, CHRG, indicates full charge. Also featured is an NTC thermistor input used to monitor battery temperature while charging.

The LTC4067 is available in a 12-lead low profile 4mm × 3mm DFN package.

Features

Programmable Input Current Limit:

Single Resistor at CLPROG Pin to Set and Monitor Input Current

Battery Charger/Ideal Diode/Controller:

13V Overvoltage Protection

Full Featured Battery Charger with 4.2V Float

Up to 1.25A Programmable Charge Current

Thermal Regulation Maximizes Charge Current Without Risk of Overheating

Internal 2 Hour Termination Timer from Onset of Voltage Mode Charging

Automatic Load Switchover to Battery Power with Internal Ideal Diode and Drive Output for Optional External MOSFET

NTC Thermistor Input

Bad Battery Time-Out Detection

4mm × 3mm 12-Lead DFN Package

Application

Automatic Battery Charging/Load Switchover

Backup Battery Charger

Uninterrupted Supplies

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

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Analog Devices, Inc
28-WFQFN